



Joint Warfighter Medical Research Program

MILITARY RELEVANCE

The intent of the Joint Warfighter Medical Research Program (JWMRP), in accordance with Congressional language, is to use the appropriated funds to augment and accelerate high-priority Department of Defense (DoD) and Service medical requirements and to continue both core and Congressional Special Interest (CSI) initiatives that are close to achieving their objectives and yielding a benefit to military medicine.

VISION

Move military relevant medical solutions forward in the acquisition life-cycle to meet the needs of Service members and other military health system beneficiaries

MISSION

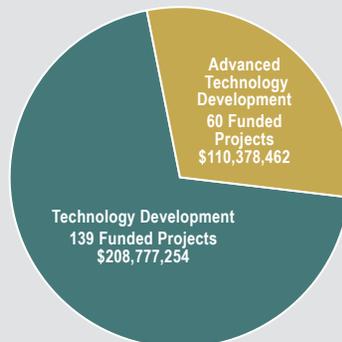
Accelerate research and development projects that have the potential to close high priority Department of Defense medical capability gaps

PROGRAM HISTORY

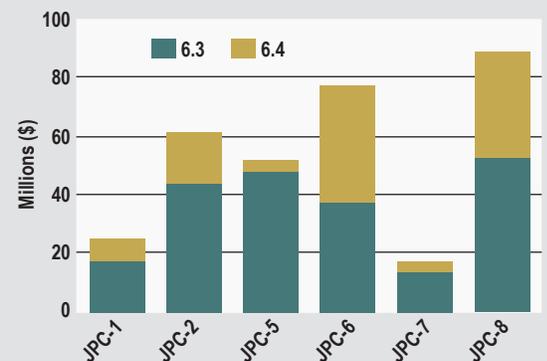
The U.S. Congress first established the JWMRP in fiscal year 2012 (FY12) with an appropriation of \$50 million (M); over the last 7 years, \$450M has been appropriated in support of this program. Since FY12, 126 projects have been funded through the JWMRP in two major categories: advanced technology development projects and demonstration/validation projects. Efforts in advanced technology development focus on systematic application of knowledge toward the production of potential medical solutions. Demonstration/validation projects focus on demonstration and validation of the performance parameters of potential products to support their transition toward clinical or rehabilitative utility. By supporting both advanced technology development and demonstration/validation efforts, the JWMRP offers a pathway for transitioning promising medical solutions from the laboratory toward the clinic for the benefit of our Service members, other military health system beneficiaries, and the American public.

The JWMRP provides the DoD with a powerful tool for advancing previously funded CSI and core funded medical research and development projects that address the military medical requirements of the Services while complementing and enhancing the Defense Medical Research and Development Program (DMRDP). The JWMRP leverages the efforts of industry and academia for projects that show promise in closing identified military medical capability gaps and provides the funding to move these products through the developmental process.

Each year, a broad spectrum of research projects are considered for funding under the JWMRP. The projects align to the six Joint Program Committee/Program Area Director scientific domains represented in the DMRDP, including Medical Simulation and Information Sciences, Military Infectious Diseases, Military Operational Medicine, Combat Casualty Care, Radiation Health Effects, and Clinical and Rehabilitative Medicine.



Total FY12-FY17 Funded by JPCs
Total Funding \$319,155,715



JWMRP FY12-FY17 Funding by JPC

The JWMP is a dynamic program that facilitates the maturation of previous Congressionally and core funded research efforts that demonstrate the potential to close identified military medical capability gaps. By focusing on both early and advanced technology development, the JWMP provides a pathway to transition products to military healthcare providers and the Warfighter.

RESEARCH AND PRODUCT DEVELOPMENT EFFORTS FUNDED BY THE JWMP

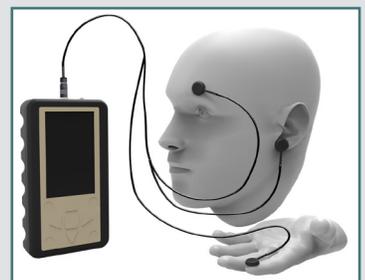
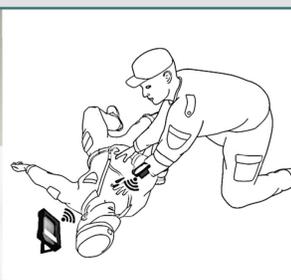
Focused effort on improving cognitive and functional deficits in individuals with traumatic brain injury using virtual technology
Ultra-wideband wearable ultrasound probe for battlefield use
Phase IIb clinical trial for a Norovirus vaccine
Phase II malaria clinical trial with the first live attenuated vaccine against protozoal disease in humans
Development and clinical trial of a food supplement to prevent travelers' diarrhea
Development of a lyophilized injectable for a point-of-care therapeutic for post-traumatic osteoarthritis
Development of an effective exposure psychotherapy paradigm for the treatment of post-traumatic stress disorder
Device development of the Transportable Pathogen Reduction and Blood Safety System
Development of a non-electric, disposable intravenous infusion pump
Pivotal study on the regulatory approval pathway for the drug, Entolimod, to treat acute radiation sickness
Accelerating product development of the opioid, Sufentanil, for pain treatment
Development of electronic capture and seamless communication of point-of-injury information using ultra-wideband technology integrated with the Nett Warrior Platform
Development of a thermoresponsive reversible adhesive for temporary intervention of ocular trauma
Light-activated sealing to improve outcomes following penetrating bowel trauma
Non-invasive intracranial pressure assessment using a compact portable monitor
Treatment of adult severe traumatic brain injury using autologous bone marrow mononuclear cells
Development of an implantable pudendal nerve stimulator to restore bladder function in humans after spinal cord injury
Development of a moisture management liner and active cooling system for lower limb prostheses to improve fit, comfort, and residual limb skin care
Development of a decision support tool with the ability to differentiate casualties who need a blood transfusion immediately upon arrival to a hospital from those who do not



Prosthetic with Moisture Management Liner and Active Cooling System



Ultra-Wideband, Wearable Ultrasound Probe for Battlefield Use



Non-Invasive Intracranial Pressure Assessment